

# Elastomer compounds in the process industry



In the different sectors of the process industries the use of sealing elements gets challenged by highest demands. On the one hand because of the chemical and mechanical stress and on the other hand because of many standards and approvals the elastomer must be compliant with.

Angst+Pfister offers solutions based on their own elastomer compounds that allow the production of nearly all moulded parts to meet those high requirements.

**We have the material expertise, contact us for your development requirements.**

Performance	Material	Properties	Approvals*
Highest chemical resistance for CIP/SIP and low friction	<b>PERTEC® CIP FKM 75.501-04</b> Fluorine elastomer, peroxide cross-linked approx. 75 Shore A, blue	<ul style="list-style-type: none"> <li>suitable for many «Cleaning in Place» (CIP) and «Sterilization in Place» (SIP) applications</li> <li>temperature resistance up to +200°C</li> <li>broad chemical resistance</li> </ul>	3-A, ADI free, BfR, EC 1935, FDA, GB 4806.11, LFGB, NSF 51, PAH Class 1, Phthalate free, SR, USP Class VI
Highest purity under extreme conditions	<b>PERTEC® UP FKM 70.501-07</b> Fluorine elastomer, peroxide cross-linked approx. 70 Shore A, black	<ul style="list-style-type: none"> <li>compliant with a wide range of approvals</li> <li>very good chemical resistance</li> <li>high temperature resistance up to +200°C</li> </ul>	ADI free, BfR, EC 1935, DVGW W270, FDA, French Arrete, GB 4806.11, LFGB, NSF 51, PAH Category 1, Phthalate free, SR
Elasticity for highest stress requirements	<b>PERTEC® UP VMQ 70.501-01</b> Silicone elastomer, peroxide cross-linked approx. 70 Shore A, black  A softer, similar compound is available as <b>PERTEC® UP VMQ 50.501-02</b>	<ul style="list-style-type: none"> <li>compliant with a wide range of approvals</li> <li>very good chemical resistance</li> <li>large temperature range of -60°C – +200°C</li> </ul>	3-A, ADI free, BfR, D.M., DPR, DVGW EN549 + W270, EC 1935, FDA, French Arrete, GB 4806.11 + 4806.1 + 9685, GMC, KTW, LFGB, NSF 51, PAH Class 1, Phthalate free, SR, USP Class VI
Global approvals for drinking water and other applications	<b>HITEC® DW EPDM 70.503-00</b> EPDM elastomer, peroxide cross-linked approx. 70 Shore A, black	<ul style="list-style-type: none"> <li>especially for drinking water applications</li> <li>suitable for hot water and steam applications</li> <li>low compression set</li> <li>good ageing and ozone resistance</li> <li>complies with a large variety of approvals</li> </ul>	3-A, ACS, ADI free, AS/NZS, BfR, D.M., Dlgs., DVGW EN681 + W534, EC 1935, FDA, GB 4806.11, KIWA, LFGB, NSF 51 + 61, ÖNORM, PAH Class 1, SR, UBA, USP Class VI, WRAS
Global approvals for food and beverage and other applications	<b>PERTEC® UP EPDM 70.503-04</b> EPDM elastomer, peroxide cross-linked approx. 70 Shore A, black  A harder, similar compound is available as <b>PERTEC® UP EPDM 80.503-01</b>	<ul style="list-style-type: none"> <li>suitable for many CIP/SIP applications</li> <li>especially for global food and beverage applications</li> <li>complies with a large variety of approvals</li> </ul>	3-A, EC 1935, BfR, LFGB, DPR, D.M., French Arrete, DCA III, SR, FDA, GB 4806.1 + 4806.11 + 9685, PAH Class I, USP Class VI (NSF 51 and MERCOSUR in progress)
Unrivalled high-performance materials of Kalrez perfluor (FFKM)	<b>KALREZ® 6621/6230</b> Perfluor elastomer, 6221 approx. 70 Shore A in white and 6230 approx. 75 Shore A in black	<ul style="list-style-type: none"> <li>very good chemical resistance</li> <li>temperature resistance up to +260°C</li> </ul>	3-A, FDA, USP Class VI
	<b>PERTEC® UP HNBR</b> HNBR elastomer, peroxide cross-linked approx. 75 Shore A	<ul style="list-style-type: none"> <li>excellent mechanical properties</li> <li>low PAH content</li> </ul>	Complies with a lot of international food and beverage regulations and many more

**COMING SOON**

## Our contact details

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\* For more details please request the technical data sheets of our compounds. Contact us for support to find your specific solution for your individual requirements.